ham radio

index to volume II–1969

This index covers all articles published in **ham radio** during 1969. The articles are listed alphabetically under each category along with the author, page number and month. Categories are: antennas and transmission lines; commercial equipment; construction techniques; fm and repeaters; integrated circuits; keying; measurements and test equipment; miscellaneous technical; power supplies; propagation; receivers and converters; RTTY; semiconductors; single sideband; transmitters and power amplifiers; and vhf and microwave. Articles followed by (HN) appeared in the **ham notebook.**

antennas and transmission lines

Antennas and capture area
(K6MIO) p. 42, Nov.
Antenna and rotator preventive maintenance
(WA1ABP) p. 66, Jan.
Balun, Simplified
(HN) p. 73, Oct.
Bobtail curtain array, forty-meter
(VE1TG) p. 58, July
Coaxial cable connectors
(HN) p. 71, March
Coaxial feedthrough panel
(HN) p. 70, April
Coax, Low-cost
(HN) p. 74, Oct.
Collinear, six meter
(K4ERO) p. 59, Nov.
Converted-vee, 80 and 40 meter
(W6JKR) p. 18, Dec.
Cubical quad, Economy six-meter
(W6DOR) p. 50, April
Cubical quad measurements
(W4YM) p. 42, Jan.
Dipole antennas on non-harmonic frequencies
(HN) p. 72, March
Dipole center insulator
(HN) p. 69, May
Dipole, Sloping inverted-vee
(W6NIF) p. 48, Feb.
Ground plane, 2-meter, 0.7 wavelength
(W3WZA) p. 40, March
High-frequency amateur antennas
(W2WLR) p. 28, April
High-frequency diversity antennas
(W2WLR) p. 28, Oct.
Loads, Affect of mismatched transmitter
(W5JJ) p. 60, Sept.
Log-periodic yagi beam
(K6RIL, W6SAI) p. 8, July
Long-wire multiband antenna
(W3FQJ) p. 28, Nov.
Measuring antenna gain
(K6JYO) p. 26, July
Microwave antenna, Low-cost
(K6HIJ) p. 52, Nov.
Mono-loop antenna
(HN) p. 70, Sept.
Parabolic reflector, 16-foot homebrew
(WB6IOM) p. 8, Aug.
Quad antenna, Multiband
(DJ4VM) p. 41, Aug.
Reflectometers
(K1YZW) p. 65, Dec.
Stub bandswitched antennas
(W2EEY) p. 50, July
Stub-switched, stub-matched antennas
(W2EEY) p. 34, Jan.
Switch, antenna for 2M, solid-state
(K2ZSQ) p. 48, May
Tower, Wind-protected crank-up
(HN) p. 74, Oct.
T-R switch
(K3KMO) p. 61, April
Tuner, Receiver
(HN) p. 72, March
Vertical, top-loaded 80 meter
(VE1TG) p. 48, June

commercial equipment

Collins 32S1 cw modification
(HN) p. 82, Dec.
Collins 51J pto restoration
(W6SAI) p. 36, Dec.
Heathkit Sixer, spot switch
(HN) p. 84, Dec.
Heath HW-100 incremental tuning
(HN) p. 67, June
HT-37, Increased sideband suppression
(W3CM) p. 48, Nov.
Knight-kit inverter/charger review
(W1DTY) p. 64, April
SB301/401, Improved sidetone operation
(HN) p. 73, Oct.
SBE linear amplifier tips
(HN) p. 71, March
Signal one review
(W1NLB) p. 56, May
Swan 250, update your
(HN) p. 84, Dec.

ham radio

index to volume II–1969

This index covers all articles published in **ham radio** during 1969. The articles are listed alphabetically under each category along with the author, page number and month. Categories are: antennas and transmission lines; commercial equipment; construction techniques; fm and repeaters; integrated circuits; keying; measurements and test equipment; miscellaneous technical; power supplies; propagation; receivers and converters; RTTY; semiconductors; single sideband; transmitters and power amplifiers; and vhf and microwave. Articles followed by (HN) appeared in the **ham notebook.**

antennas and transmission lines

Antennas and capture area
(K6MIO) p. 42, Nov.
Antenna and rotator preventive maintenance
(WA1ABP) p. 66, Jan.
Balun, Simplified
(HN) p. 73, Oct.
Bobtail curtain array, forty-meter
(VE1TG) p. 58, July
Coaxial cable connectors
(HN) p. 71, March
Coaxial feedthrough panel
(HN) p. 70, April
Coax, Low-cost
(HN) p. 74, Oct.
Collinear, six meter
(K4ERO) p. 59, Nov.
Converted-vee, 80 and 40 meter
(W6JKR) p. 18, Dec.
Cubical quad, Economy six-meter
(W6DOR) p. 50, April
Cubical quad measurements
(W4YM) p. 42, Jan.
Dipole antennas on non-harmonic frequencies
(HN) p. 72, March
Dipole center insulator
(HN) p. 69, May
Dipole, Sloping inverted-vee
(W6NIF) p. 48, Feb.
Ground plane, 2-meter, 0.7 wavelength
(W3WZA) p. 40, March
High-frequency amateur antennas
(W2WLR) p. 28, April
High-frequency diversity antennas
(W2WLR) p. 28, Oct.
Loads, Affect of mismatched transmitter
(W5JJ) p. 60, Sept.
Log-periodic yagi beam
(K6RIL, W6SAI) p. 8, July
Long-wire multiband antenna
(W3FQJ) p. 28, Nov.
Measuring antenna gain
(K6JYO) p. 26, July
Microwave antenna, Low-cost
(K6HIJ) p. 52, Nov.
Mono-loop antenna
(HN) p. 70, Sept.
Parabolic reflector, 16-foot homebrew
(WB6IOM) p. 8, Aug.
Quad antenna, Multiband
(DJ4VM) p. 41, Aug.
Reflectometers
(K1YZW) p. 65, Dec.
Stub bandswitched antennas
(W2EEY) p. 50, July
Stub-switched, stub-matched antennas
(W2EEY) p. 34, Jan.
Switch, antenna for 2M, solid-state
(K2ZSQ) p. 48, May
Tower, Wind-protected crank-up
(HN) p. 74, Oct.
T-R switch
(K3KMO) p. 61, April
Tuner, Receiver
(HN) p. 72, March
Vertical, top-loaded 80 meter
(VE1TG) p. 48, June

commercial equipment

Collins 32S1 cw modification
(HN) p. 82, Dec.
Collins 51J pto restoration
(W6SAI) p. 36, Dec.
Heathkit Sixer, spot switch
(HN) p. 84, Dec.
Heath HW-100 incremental tuning
(HN) p. 67, June
HT-37, Increased sideband suppression
(W3CM) p. 48, Nov.
Knight-kit inverter/charger review
(W1DTY) p. 64, April
SB301/401, Improved sidetone operation
(HN) p. 73, Oct.
SBE linear amplifier tips
(HN) p. 71, March
Signal one review
(W1NLB) p. 56, May
Swan 250, update your
(HN) p. 84, Dec.

Swan 350 and 400, RTTY operation (HN) p. 67, Aug.
T150A frequency stability (HN) p. 70, April

construction techniques

APC trimmer, Adding shaft to (HN) p. 68, July
Center insulator, dipole (HN) p. 69, May
Coaxial cable connectors (HN) p. 71, March
Coax relay coils, Another use (HN) p. 72, Aug.
Grounding (HN) p. 67, June
Homebrew art (WØPEM) p. 56, June
Miniature sockets (HN) p. 84, Dec.
Mobile installation, Putting together (WØFCH) p. 36, Aug.
Transceiver, single-band (W1DTY) p. 8, June
Transformers, Repairing (W6NIF) p. 66, March
Trimmers (HN) p. 76, Nov.
Underwriter's knot (HN) p. 69, May
Vfo, Simple high stability (W8YFB) p. 14, March
Watercooling the 2C39 (K6MYC) p. 30, June
Wiring and grounding (W1EZT) p. 44, June

fm and repeaters

Distortion in fm systems (W5JJ) p. 26, Aug.
Encoder, Combined digital and burst (K8AUH) p. 48, Aug.
Fm techniques and practices for vhf amateurs (W6SAI) p. 8, Sept.
Identifier, Programmable repeater (W6AYZ) p. 18, April
Short circuit p. 76, July
Receiver, Modular fm communications (K8AUH) p. 32, June
Repeater, Receiving system degradation (K5ZBA) p. 36, May
Repeater transmitter, Improving (W6GDO) p. 24, Oct.
Tone encoder and secondary frequency oscillator (HN) p. 66, June

integrated circuits

Applications, Potpourri of IC (W1DTY, Thorpe) p. 8, May
Calibrator, Frequency-divider using mos IC's (W6GXN) p. 30, Aug.
Calibrator, Plug-in frequency (K6KA) p. 22, March
Electronic keyer (VE7BFK) p. 32, Nov.
Low-cost linear IC's (WA7KRE) p. 20, Oct.
Noise blanker (W2EEY) p. 52, May
Operational amplifiers (WB2EGZ) p. 6, Nov.
Receiver, fixed-tuned for WWV (W6GXN) p. 24, Nov.
Receiver, 160-meter (W3TNO) p. 6, Dec.
RTTY converter (K9MRL) p. 40, May
Short circuit p. 80, Aug.
Using integrated circuits (HN) p. 69, May
Using IC's with single-polarity power supplies (W2EEY) p. 35, Sept.
Vox (W2EEY) p. 50, March

keying

Electronic keyer, IC (VE7BFK) p. 32, Nov.
Mini-paddle (K6RIL) p. 46, Feb.
Monitor, cw (W2EEY) p. 46, Aug.
Paddle, Homebrew keyer (W3NK) p. 43, May
Remote keying your transmitter (HN) p. 74, Oct.
Vox, IC (W2EEY) p. 50, March
Vox keying (HN) p. 83, Dec.

measurements and test equipment

Antenna gain, Measuring (K6JYO) p. 26, July
Calibrator, Plug-in IC (K6KA) p. 22, March
Cubical quad measurements (W4YM) p. 42, Jan.
Encoder, Combined digital and burst (K8AUH) p. 48, Aug.
Frequency meter, Crystal controlled (HN) p. 71, Sept.
Monitorscope, Miniature (WA3FIY) p. 34, March
Multi-box (HN) p. 68, July
Oscilloscope calibrator (HN) p. 69, July
Oscilloscope, Putting it to work in ham gear (Allen) p. 64, Sept.
Oscilloscope, Troubleshooting amateur gear with (Allen) p. 52, Aug.

Reflectometers
(K1YZW) p. 65, Dec.
Signal generator, Tone modulated for two and six meters (WA8OIK) p. 54, Nov.
Tone encoder and secondary frequency oscillator (HN) p. 66, June
Trapezoidal monitor scope
(VE3CUS) p. 22, Dec.
Uhf tuner tester for tv sets
(HN) p. 73, Sept.
Vtvm modification
(W6HPH) p. 51, Feb.
Zener tester, Low-voltage
(HN) p. 72, Nov.

miscellaneous technical

Antenna gain, Measuring
(K6JYO) p. 26, July
Antennas and capture area
(K6MIO) p. 42, Nov.
Bandpass filters, Single-pole
(W6HPH) p. 51, Sept.
Bandpass filters, 25 to 2500 MHz
(K6RIL) p. 46, Sept.
Blocking oscillators
(W6GXN) p. 45, April
Computers and ham radio
(W5TOM) p. 60, March
Crystal oscillator, Voltage-controlled
(WB6IOM) p. 58, Oct.
Crystal oscillators
(W6GXN) p. 33, July
Fm techniques
(W6SAI) p. 8, Sept.
Frequency synthesis
(WA5SKM) p. 42, Dec.
Glass semiconductors
(W1EZT) p. 54, July
Graphical network Solutions
(W1NCK, W2CTK) p. 26, Dec.
Gridded tubes, Vhf-uhf effects
(W6UOV) p. 8, Jan.
Grounding and wiring
(W1EZT) p. 44, June
Lighthouse tubes for uhf
(W6UOV) p. 27, June
Mismatched transmitter loads, Affect of
(W5JJ) p. 60, Sept.
Mnemonics
(W6NIF) p. 69, Dec.
Noise figure, Meaning of
(K6MIO) p. 26, March
Operational amplifiers
(WB2EGZ) p. 6, Nov.
Photographic Illustrations
(WA4GNW) p. 72, Dec.
Product detector, Hot-carrier diode
(VE3GFN) p. 12, Oct.
Radio communications links
(W1EZT) p. 44, Oct.
Safety in the ham shack
(Darr, James) p. 44, March
Signal detection and communication in the presence of white noise
(WB6IOM) p. 16, Feb.
Slow-scan television
(WA2EMC) p. 52, Dec.
Slow-scan tv camera and monitor
(VE3EGO, Watson) p. 38, April
Tetrodes, External-anode
(W6SAI) p. 23, June
Tuning, Current-controlled
(K2ZSQ) p. 38, Jan.

power supplies

Dual-voltage power supply
(HN) p. 71, April
Short circuit p. 80, Aug.
Knight-kit power inverter/charger review
(W1DTY) p. 64, April
Power supplies for single sideband
(Belt) p. 38, Feb.
Transformers, High-voltage, repairing
(W6NIF) p. 68, March

propagation

Echoes, Long-delay
(WB6KAP) p. 61, May
Ionospheric E-layer
(WB6KAP) p. 58, Aug.
Ionospheric science, Short history of
(WB6KAP) p. 58, June
Sunspot numbers
(WB6KAP) p. 63, July
Sunspots and solar activity
(WB6KAP) p. 60, Jan.
Tropospheric-duct vhf communications
(WB6KAP) p. 68, Oct.

receivers and converters

Antenna tuner, Miniature receiver
(HN) p. 72, March
Calibrator, Plug-in frequency
(K6KA) p. 22, March
Calibrator, Simple frequency-divider using mos IC's (W6GXN) p. 30, Aug.
Converter, Bandswitching hf, postscript
(HN) p. 68, May
Converting a vacuum-tube receiver to solid-state (W1OOP) p. 26, Feb.
Cw selectivity with crystal bandpassing
(W2EEY) p. 52, June
Fm communications receiver, Modular
(K8AUH) p. 32, June
Fm repeaters, Receiving system degradation in (K5ZBA) p. 36, May
Gonset converter, Solid-state modification of
(Schuler) p. 58, Sept.
Noise blanker, Hot-carrier diode
(W4KAE) p. 16, Oct.
Noise blanker, IC
(W2EEY) p. 52, May

Noise figure, The real meaning of
(K6MIO) p. 26, March
Preamplifier, Low-noise high-gain transistor
(W2EEY) p. 66, Feb.
Product detector, Hot-carrier diode
(VE3GFN) p. 12, Oct.
Q5er, Solid-state
(W5TKP) p. 20, Aug.
WWV receiver, Fixed-tuned
(W6GXN) p. 24, Nov.
1.9-MHz receiver
(W3TNO) p. 6, Dec.
144 MHz converter, Hot-carrier diode
(K8CJU) p. 6, Oct.
144 MHz converters, Choosing fets for
(HN) p. 70, Aug.
144-MHz preamp, Super
(HN) p. 72, Oct.
220-MHz mosfet converter
(WB2EGZ) p. 28, Jan.
Short circuit p. 76, July
432 MHz preamp
(HN) p. 66, Aug.

rtty

RTTY, Introduction to
(K6JFP) p. 38, June
RTTY converter, Miniature IC
(K9MRL) p. 40, May
Short circuit p. 80, Aug.
Swan 350 and 400 equipment on RTTY
(HN) p. 67, Aug.

semiconductors

Antenna switch for two meters, Solid-state
(K2ZSQ) p. 48, May
Converting a vacuum-tube receiver to
solid-state (W1OOP) p. 26, Feb.
Short circuit p. 76, July
Crystal switching
(HN) p. 70, March
Glass semiconductors
(W1EZT) p. 54, July
Hot-carrier diode converter
(K8CJU) p. 6, Oct.
Mobile converter, Solid-state modification of
(Schuler) p. 58, Sept.
Mosfet transistors
(HN) p. 72, Aug.
Q5er, Solid-state
(W5TKP) p. 20, Aug.
Receiver, 160-meter
(W3TNO) p. 6, Dec.
Transistors for vhf transmitters
(HN) p. 74, Sept.
Vfo transistors
(HN) p. 74, Nov.
Zener tester, Low-voltage
(HN) p. 72, Nov.

single sideband

Grounded-grid 2 kW PEP amplifier
(W6SAI) p. 6, Feb.
Linears, Three bands with two
(HN) p. 70, Nov.
Power supplies for ssb
(Belt) p. 38, Feb.
Solid-state circuits for ssb
(Belt) p. 18, Jan.
Speech clipping
(K6KA) p. 24, April
Transceiver, Single-band
(W1DTY) p. 8, June
Transmitter alignment
(Allen) p. 62, Oct.
Transmitting mixers, 6 and 2 meters
(K2ISP) p. 8, April
Trapezoidal monitor scope
(VE3CUS) p. 22, Dec.
Tuning up ssb transmitters
(Allen) p. 62, Nov.

transmitters and power amplifiers

ART-13, Modifying for noiseless cw
(HN) p. 68, Aug.
Cw transceiver for 40 and 80 meters
(W3NNL, K3OIO) p. 14, July
Cw transmitter, Half-watt
(KØVQY) p. 69, Nov.
Fm repeater transmitter, Improving
(W6GDO) p. 24, Oct.
Grounded-grid 2 kW PEP amplifier
(W6SAI) p. 6, Feb.
Linear for 2 meters
(W4KAE) p. 47, Jan.
Linears, Three bands with two
(HN) p. 70, Nov.
Oscillators
(HN) p. 68, Nov.
Ssb transmitter alignment
(Allen) p. 62, Oct.
Transceiver, Single-band ssb
(W1DTY) p. 8, June
Transistors for vhf transmitters
(HN) p. 74, Sept.
Transmitter, Remote keying
(HN) p. 74, Oct.
Transmitter, Universal flea-power
(K2ZSQ) p. 58, April
Transmitting mixers for 6 and 2 meters
(K2ISP) p. 8, April
Transverter for 6 meters
(WA9IGU) p. 44, July
Tuning up ssb transmitters
(Allen) p. 62, Nov.
Vfo, High stability
(W8YFB) p. 14, March
Vfo transistors
(HN) p. 74, Nov.
Vhf linear, 2 kW, Design data for
(W6UOV) p. 6, March

432-MHz exciter, Solid-state (W1OOP) p. 38, Oct.
1296 MHz frequency tripler (K4SUM, W4API) p. 40, Sept.

troubleshooting

Analyzing wrong dc voltages (Allen) p. 54, Feb.
Ohmmeter troubleshooting (Allen) p. 52, Jan.
Oscilloscope, Putting to work (Allen) p. 64, Sept.
Oscilloscope, Troubleshooting amateur gear with (Allen) p. 52, Aug.
Ssb transmitter alignment (Allen) p. 62, Oct.
Tuning up ssb transmitters (Allen) p. 62, Nov.

vhf and microwave

Bandpass filters, Single-pole (W6HPH) p. 51, Sept.
Bandpass filters, 25 to 2500 MHz (K6RIL) p. 46, Sept.
Gridded tubes, Vhf/uhf effects in (W6UOV) p. 8, Jan.
Lighthouse tubes for uhf (W6UOV) p. 27, June
Log-periodic yagi beam antenna (K6RIL, W6SAI) p. 8, July
Microwave antenna, Low-cost (K6HIJ) p. 52, Nov.
Microwave communications, amateur, Standards for (K6HIJ) p. 54, Sept.
Noise Figure, Meaning of (K6MIO) p. 26, March
Parabolic reflector, 16-foot homebrew (WB6IOM) p. 8, Aug.
Signal detection and communication in the presence of white noise (WB6IOM) p. 16, Feb.
Signal generator for two and six meters (WA8OIK) p. 54, Nov.
Transistors for vhf transmitters (HN) p. 74, Sept.
Vhf beacons (K6EDX) p. 52, Oct.
Vhf linear, 2 kW, Design data for (W6UOV) p. 7, March
2C39, Water cooling (K6MYC) p. 30, June
50 MHz collinear beam (K4ERO) p. 59, Nov.
50 MHz cubical quad, Economy (W6DOR) p. 50, April
50 MHz transverter (WA9IGU) p. 44, July
50 and 144 MHz heterodyne transmitting mixers (K2ISP) p. 8, April
144 MHz antenna switch, Solid-state (K2ZSQ) p. 48, May
144 MHz converters, Choosing fets (HN) p. 70, Aug.
144 MHz ground plane antenna, 0.7 wavelength (W3WZA) p. 40, March
144 MHz linear (W4KAE) p. 47, Jan.
144 MHz preamp, Super (HN) p. 72, Oct.
220 MHz mosfet converter (WB2EGZ) p. 28, Jan.
Short circuit p. 76, July
432-MHz exciter, Solid-state (W1OOP) p. 38, Oct.
432 MHz fet preamp (HN) p. 66, Aug.
1296 MHz frequency tripler (K4SUM, W4API) p. 40, Sept.